Module Description

Application

The termination module for station-bus is used within the PROCONTROL multi-purpose processing station.

It serves to terminate the station-bus on both sides with the correct characteristic impedance. Two termination modules are needed for each station-bus.

Description

In addition to the signal line for serial data telegrams, the station-bus consists of a number of other lines for control and management signals. Every line must be correctly terminated. To this end, resistors are provided on the module, via which the signal lines are connected with the operating voltage UD+.

The module consists of a printed circuit board and a connector. This connector serves to plug the module into the station-bus backplane. The voltage UD+ is supplied via tab terminals.

The module is available in two versions (see also "Functional diagram" and "Mechanical design").

88 TB01/R0100:
In this version, the main power supply is not redundant. Therefore, jumper 5 - 6 must be installed on the printed circuit board in place of the relay.

88 TB01/R0200:
In this version, the main power is supplied in redundant form from two separated voltage sources.

Also a small relay K1 with a changeover contact is provided on the module. Soldering link 5 - 6 must be removed in this version.

This version is employed when the station-bus management function is duplicated by the use of two control modules 88 TV01.

In the functional diagram, the circuit part with relay that is only available in version R0200 is enclosed by a dash-dotted line.

The following table shows how the two versions are equipped.

<table>
<thead>
<tr>
<th>Version</th>
<th>Jumper</th>
<th>Relay</th>
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</thead>
<tbody>
<tr>
<td>R0100</td>
<td>x</td>
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<tr>
<td>R0200</td>
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</table>
Functional diagram

This circuit part is not available in version R0100
Mechanical design

Board size: 8.3 cm x 6.3 cm
Connector: according to DIN 41 612
48-pole, edge-connector type F
Weight: approx. 0.11 kg

Technical data

POWER SUPPLY

Operating voltage bus section \( U_{D^+} = +5 \text{ V} \)
Current consumption \( I_D = 0.4 \text{ A} \)
Power dissipation typ. \( P_V = 2 \text{ W} \)
Reference potential bus section \( Z_D = 0 \text{ V} \)

CONNECTED SIGNAL LINES

The following signal lines are summarized in the module descriptions of the modules of the multi-purpose processing station (input/output modules) under the designation "Standard interface SS".

DO-D15  Data lines (for management)
DAV  Data valid
ESIN  Event (common annunciation)
ZET  Central clock (2 MHz)
WT  Management
RST  Reset
SET  Send/receive clock (1 MHz)
TLG  Serial data telegram
SST  Common disturbance annunciation
SIM  Data simulated

ORDERING DATA

Type designation: 88 TB01/R0100
88 TB01/R0200
Order number: GJR2356600R0100
GJR2356600R0200

Technical data are subject to change without notice.